

Title (en)
SYSTEM FOR TRANSMITTING OPTICALLY LINKED ELECTRICAL SIGNALS AND DEVICE FOR THE AUTOMATIC GAIN CONTROL OF A RECEIVER PATH CONNECTED TO THIS OPTICAL LINKAGE

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Application
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Priority
FR 7810611 A 19780411

Abstract (en)
[origin: ES479443A1] A fiber-optical communication path between a transmitter and a receiver of electrical message signals forms a main channel and a shunt branch terminating at respective photodiodes from which incoming signals can be alternatively fed to an output terminal by way of an adjustable attenuator that is periodically reset, with the aid of a digitally operating automatic-gain-control loop in response to a pilot signal arriving over the same path. A code converter in that loop supplies binary words, representative of signal amplitude, to a comparator which determines whether the amplitude of a signal in the output of the main channel exceeds a given threshold and, in that case, causes a switchover to the shunt branch whose optical attenuation is substantially greater. The periodic emission of a pilot signal in lieu of a message signal is controlled by a setting instruction which, aside from enabling the resetting of the attenuator according to the instantaneous contents of the code converter, is sent to the transmitting end via a further fiber-optical channel in order to command a changeover from one signal source to another.

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EP 0004815 A2 19791017; **EP 0004815 A3 19791128**; **EP 0004815 B1 19820512**; DE 2962770 D1 19820701; ES 479443 A1 19800201; FR 2423093 A1 19791109; FR 2423093 B1 19800919; JP S54137903 A 19791026; US 4262366 A 19810414

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